PATENT COOPERATION TREATY

INFORMATION **ENTERED ON ALECTO**

From the INTERNATIONAL SEARCHING AUTHORITY

To:
HOWREY SIMON ARNOLD & WHITE
Attn. Clarkson, Paul
CityPoint
One Ropemaker Street
London EC2Y 9HS
UNITED KINGDOM

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1) Date of mailing (day/month/year) 07054 07/02/2005 Applicant's or agent's file reference See paragraphs 1 and 4 below FOR FURTHER ACTION 97045.0006.00PC00 International filing date International application No. (day/month/year) 22/09/2004 PCT/EP2004/010732 Applicant TEN CATE ADVANCED TEXTILES B.V.

1.	x	The applicant is hereby notified that the International search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.				
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.				
		Where? Directly to the international Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35				
		For more detailed instructions, see the notes on the accompanying sheet.				
2.		The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith.				
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4.	Sho	ninders Industry after the expiration of 18 months from the priority date, the international application will be published by the reactional Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international lication, or of the priority claim, must reach the international Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, ore the completion of the technical preparations for international publication.				
	- L.	and the street may exhault comments on an informal basis on the written opinion of the international Searching Authority to the				

The applicant may submit comments on an informa

International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filled within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and malling address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,

Fax: (+31-70) 340-3016

Authorized officer

Sophie Ruciak-Guisan

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220				
07045.0006.00PC00	ACTION	as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/)	(Earliest) Priority Date (day/month/year)				
PCT/EP2004/010732	22/09/2004	22/09/2003				
Applicant						
	זו מיי					
TEN CATE ADVANCED TEXTILES	D.V.					
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searc ansmitted to the International Bureau.	hing Authority and is transmitted to the applicant				
This International Search Report consists						
X It is also accompanied by	a copy of each prior art document cit	ea in this report.				
language in which it was filed, un	less otherwise maicated drider this he					
this Authority (Ru	ite 23.1(b)).	of a translation of the international application furnished to				
b. With regard to any nucle	otide and/or amino acid sequence	disclosed in the international application, see Box No. I.				
2. Certain claims were for	ind unsearchable (See Box II).					
3. Unity of invention is lac	sking (see Box III).					
4. With regard to the title,						
X the text is approved as s						
the text has been establi	shed by this Authority to read as follow	ws:				
·						
5. With regard to the abstract,						
I to the base season	submitted by the applicant.	his Authority as it appears in Box No. IV. The applicant				
X the text has been estable may, within one month to	rom the date of malling of this interna	tional search report, submit comments to this Authority.				
6. With regard to the drawings,						
	published with the abstract is Figure	No				
X as suggested by	y the applicant. this Authority, because the applicant f	alled to suggest a figure.				
	this Authority, because this figure bett					
t the state of the	be published with the abstract.					

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/010732

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The invention provides a method for digitally upgrading a textile article(T) using a textile upgrading device(1), the device(1) comprising a number of nozzles(12) for applying one or more substances to the textile(T), in addition to transport means(2) for transporting the textile(T) along the nozzles(12), wherein the nozzles(12) are ordered in a number of successively placed rows(4,5,6,7) extending transversely of the transporting direction of the textile article(T), the method comprising the steps of: guiding the textile article(T) along a first row(4) of nozzles(12); performing with the first row(4) of nozzles(12) one of the operations of painting, coating or finishing of the textile article(T) carried therealong; subsequently guiding the textile(T) along a second row(5) of nozzles(12); and performing with the second row(5) of nozzles(12) another of the operations of painting, coating or finishing of the textile article(T) carried therealong.

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/010732

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 D06B11/00 B41J11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 D06B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Χ.	US 6 120 560 A (S.C. MILLER ET AL) 19 September 2000 (2000-09-19)	1,7, 9-12,18, 20,23,24
	column 3, line 32 - line 64 column 4, line 12 - line 50	
X .	US 2003/081094 A1 (M.A. VAN VEEN; J.E. DORMAN) 1 May 2003 (2003-05-01)	1,7,8, 10-14, 18,20, 23,24
	paragraphs '0002!, '0016! - '0018!, '0030!, '0034!, '0037! - '0039!, '0049! - '0054!	
	_/	
	·	

·	
Further documents are listed in the continuation of box C.	χ Patent tamily members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the International filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
27 January 2005	07/02/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Goodall, C

INTERNATIONAL SEARCH REPUBLI

International Application No
PCT/ÉP2004/010732

•	F .	PCT/EP2004/	010732
Continue	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT		
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Re	evant to claim No.
(US 4 580 304 A (D.L. OTTING; B.J. OTTING) 8 April 1986 (1986-04-08)		1,7, 10-12, 18,20, 23,24
	column 3, line 4 - column 4, line 18		
4	GB 2 187 419 A (DAWSON ELLIS LTD.) 9 September 1987 (1987-09-09)		1,7,10,' 12-14, 18-20, 23,24
	page 1, line 104 - page 2, line 12 page 2, line 61 - line 72 page 2, line 91 - line 95 page 3, line 32 - line 81 page 3, line 95 - page 4, line 6		
A	US 4 791 434 A (L.J. WILLS) 13 December 1988 (1988-12-13) claim 1; figure 4		5
A	US 4 501 038 A (B.J. OTTING) 26 February 1985 (1985-02-26)		
•			
	·		

INTERNATIONAL SEARCH REPURT

Information on patent family members

International Application No PCT/EP2004/010732

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6120560	Α	19-09-2000	NONE		
US 2003081094	A1	01-05-2003	NONE		
US 4580304	. A	08-04-1986	BE	902399 A1	02-09-1985
03 1 30000 i	• •		GB	2158773 A ,B	
			BE	901864 A1	01-07-1985
			GB	2154907 A	18-09-1985
			US	4578836 A	01-04-1986
GB 2187419	A	09-09-1987	EP	0306568 A1	15-03-1989
US 4791434		13-12-1988	AT	54103 T	15-07-1990
03 4/31434	**	20 22 2000	WO	8602959 A1	22-05-1986
			DE	3578405 D1	02-08-1990
			EP	0202268 A1	26-11-1986
			HU	40474 A2	28-12-1986
			JP	62501301 T	21-05-1987
US 4501038	 А	26-02-1985	US	4485508 A	04-12-1984

PATENT COOPERATION TREATY

lo:				PCT	
see form PCT/ISA/220			INTERNATION	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)	
			(F	CT Rule 43 <i>bis.</i> ()	
			Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)	
Applicant's or agent's file			FOR FURTHER ACTION See paragraph 2 below		
International application I PCT/EP2004/010732		International filing date (c 22.09.2004	day/month/year)	Priority date (day/month/year) 22.09.2003	
International Patent Class D06B11/00, B41J11		both national classification	and IPC		
Applicant TEN CATE ADVANG		S B.V.	lowing items:		
⊠ Box No. I	Basis of the or	omon			
☐ Box No. II	Priority	ment of opinion with rea	ard to novelty, inventi	ve step and industrial applicability	
☐ Box No. III ☐ Box No. IV	Lack of unity of		,2.0 10 1101 - 110,	•	
☐ Box No. V	Perconed sta	tement under Rule 43 <i>bi</i> itations and explanation	is.1(a)(i) with regard to is supporting such sta	o novelty, inventive step or industrial tement	
☐ Box No. VI	Certain docum				
☐ Box No. VII		s in the international ap	plication		
	Box No. VIII Certain observations on the international application				
2. FURTHER ACT					
written opinion of the applicant ch International Bu will not be so co	of the Internation nooses an Autho ureau under Rule onsidered.	rity other than this one to 66.1 bis(b) that written	to be the IPEA and the opinions of this Intern	ill usually be considered to be a However, this does not apply where e chosen IPEA has notifed the ational Searching Authority	
	PEA a written rep e date of mailing			e IPEA, the applicant is invited to nents, before the expiration of three n of 22 months from the priority date,	
For further opti	ons, see Form P	CT/ISA/220.			
3. For further deta	ails, see notes to	Form PCT/ISA/220.			
1					



Goodall, C

Telephone No. +31 70 340-2604



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/010732

		1AP20 R35'0 7 600 TO 1.5 MAR 2006
	Box No	o. I Basis of the opinion
1.	With re	gard to the language , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
	lar	is opinion has been established on the basis of a translation from the original language into the following iguage—, which is the language of a translation furnished for the purposes of international search index Rules 12.3 and 23.1(b)).
2.	With re	gard to any nucleotide and/or amino acid sequence disclosed in the international application and early to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. time	of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3	h C	a addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.
4	. Additi	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-6,15-17,19,21,22

No:

Claims

1,7-14,18,20,23,24

Inventive step (IS)

Yes: Claims

16

No: Claims

1-15,17-24

Industrial applicability (IA)

Yes: Claims

1-24

No: Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/EP2004/010732

1AF20 Reg of FULLITO 15 MAR 2006

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: US 6 120 560 A

D2: US 2003/081094 A

D3: US 4 580 304 A

D4: GB 2 187 419 A

D5: US 4 791 434 A

- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claims 1, 23 and 24 is not new in the sense of Article 33(2) PCT.
- 2.1 The document D1 discloses (the references in parentheses applying to this document) a method for digitally upgrading a substrate (5) using an upgrading device (12,20), the device comprising a number of nozzles for applying one or more substances to the textile (5), in addition to a conveyor (34,38,52) for transporting the textile (5) along the nozzles, wherein the nozzles are ordered in a number of successively placed rows (12,54) extending transversely of the transporting direction of the textile article (5), the method comprising the steps of:
 - -guiding the textile article (5) along a first row (12) of nozzles;
 - -performing with the first row (12) of nozzles the operation of painting of the textile article (5) carried therealong;
 - -subsequently guiding the textile (5) along a second row (54) of nozzles; and
 - -performing with the second row (54) of nozzles the operation of printing of the textile article (5) carried therealong.

The subject-matter of claim 1 is therefore not new (Article 33(2) PCT).

2.2 The document D1 discloses (the references in parentheses applying to this document) a device (12,20) for upgrading a textile article (5), the device comprising a number of stationary nozzles for applying one or more substances to the textile (5), a

conveyor (34,38,52) for transporting the textile (5) along the nozzles, wherein the nozzles are ordered in a number of successively placed rows (12,54) extending transversely of the transporting direction of the textile article (5).

The subject-matter of claim 23 is therefore not new (Article 33(2) PCT).

- 2.3 The document D1 discloses a textile article produced according to the method of claim 1 and therefore the subject-matter of claim 24 is not new (Article 33(2) PCT).
- 2.4 The subject-matter of independent claims 1, 23 and 24 is also deprived of novelty by the disclosure of document D2 and by the disclosure of document D3.
- 3. Dependent claims 2-15 and 17-22 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step for the reasons given below.
- 3.1 The features of dependent claims 7,9-12,18 and 20 are disclosed in combination with the features of claim 1 in document D1.
- 3.2 The features of dependent claims 7,8,10-14,18 and 20 are disclosed in combination with the features of claim 1 in document D2.
- 3.3 The features of dependent claims 7,10-12,18 and 20 are disclosed in combination with the features of claim 1 in document D3.
- 3.4 The features of dependent claims 5 and 19 have already been employed for the same purpose in a similar process in documents D5 and D4 respectively. It would be obvious to the person skilled in the art, namely when the same result is to be achieved, to apply these features with corresponding effect to a process according to document D1, thereby arriving at a process according to claims 5 or 19.
- 3.5 The features of dependent claims 2-4,6,15,17,21 and 22 relate in each case to one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to

PCT/EP2004/010732

solve the problem posed.

4. Dependent claim 16 contains features which, in combination with claim 1, are neither known from, nor rendered obvious by, the available prior art. Claim 16 therefore meets the requirements of the PCT with respect to novelty and inventive step.